

CLAIM AMENDMENTS

1 1. (Currently amended) A device for detecting brain
2 electrical potentials on a patient, with an electrode device which
3 can be applied in the forehead region of the patient, wherein the
4 electrode device is arranged on a forehead support element which
5 co-operates with a breathing mask device in such a way that ~~the~~ an
6 application position of the electrode device is established in
7 conjunction with the application position of the breathing mask
8 device, said electrode device including at least two electrode
9 elements adapted to bear on the forehead region of the patient when
10 said breathing mask is on a face of the patient.

1 2. (Currently amended) A device as set forth in claim 1
2 ~~characterized in that~~ wherein the forehead support element is
3 coupled to the breathing mask device.

1 3. (Currently amended) A device as set forth in claim 1
2 ~~or claim 2 characterized in that~~ wherein the forehead support
3 element is formed from an elastomer material.

1 4. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 3 characterized in that~~ claim 1 wherein the
3 forehead support element is formed in one piece with a mask base
4 member of the breathing mask device.

1 5. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 4~~ characterized in that there is provided claim 1
3 wherein a stiffening element is provided which stiffeningly couples
4 together the forehead support element and the breathing mask
5 device.

6. (Cancelled).

1 7. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 6~~ characterized in that claim 1 wherein the
3 electrode device has three electrode elements.

1 8. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 7~~ characterized in that claim 1 wherein said
3 electrode elements are mounted into on an application surface to
4 yieldingly in a direction substantially perpendicular direction to
5 said application surface.

1 9. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 8~~ characterized in that claim 1 wherein the
3 electrode elements are coupled to a signal processing device.

1 10. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 9~~ characterized in that claim 9 wherein the signal
3 processing device is integrated into the forehead support element.

1 11. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 10~~ characterized in that claim 9 wherein the
3 signal processing device is provided with a data transmission
4 device for the cord-less transmission of the processed signals to a
5 data processing device.

1 12. (Currently amended) A breathing mask arrangement
2 for feeding a respiration gas to a patient under an increased
3 pressure, comprising:

4 - a mask member which engages over the nose region of the
5 patient,

6 - a sealing device for sealing off an inner region of the
7 mask with respect to the ambient atmosphere, and

8 - a forehead support element for supporting the mask
9 member in the forehead region of the patient, ~~characterized in that~~
10 ~~provided in the region of the~~ said forehead support element is an
11 electrode device having at least two electrodes adapted to press
12 against said forehead region for detecting electrical and in
13 particular brain-electrical potentials.

1 13. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 12~~ characterized in that claim 12 wherein the
3 forehead support element is formed from an elastomer material.

1 14. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 13~~ characterized in that claim 12 wherein the mask
3 member is formed from an elastomer material.

1 15. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 14~~ characterized in that claim 12 wherein the
3 forehead support element and the mask member are integral.

1 16. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 15~~ characterized in that claim 12 wherein the mask
3 member and the forehead support element are adapted to the
4 individual contour of the face of the patient by virtue of
5 stiffening with a stiffening device which extends into the forehead
6 support element.

1 17. (Currently amended) A device for detecting
2 electrical potentials in the forehead region of a patient, in
3 particular for determining sleep stages, comprising:

4 an electrode device having at least two electrode
5 elements directly engagable with the forehead region, a measuring
6 circuit arrangement for producing measurement data in accordance
7 with the electrical potentials detected by the electrode device,
8 ~~characterized in that~~ the measuring circuit arrangement is being
9 integrated into a forehead support element, and ~~there is provided a~~
10 signal transmission device for cord-less transmission of the
11 measurement data produced by the measuring circuit arrangement.

1 18. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 17~~ characterized in that wherein the measuring
3 circuit arrangement has a data compression device for forwarding a
4 compressed data set to the signal transmission device.

1 19. (Currently amended) A device for detecting
2 electrical potentials in the forehead region of a patient, in
3 particular for determining sleep stages, comprising:

4 an electrode device having at least two electrode
5 elements directly engagable with the forehead region, a measuring
6 circuit arrangement for producing measurement data in accordance
7 with the electrical potentials detected by the electrode device,
8 characterized in that the measuring circuit arrangement is
9 integrated into a forehead support element, and there is provided a
10 measurement data recording device for recording the measurement
11 data produced by the measuring circuit arrangement.

1 20. (Currently amended) A device as set forth in ~~one of~~
2 ~~claims 1 through 19~~ characterized in that claim 19 wherein the
3 measurement data recording device is formed by an approximately
4 postage stamp-size memory card element which is releasably fitted.

REMARKS

The present amendment is submitted in an earnest effort
to advance this case to issue without delay.